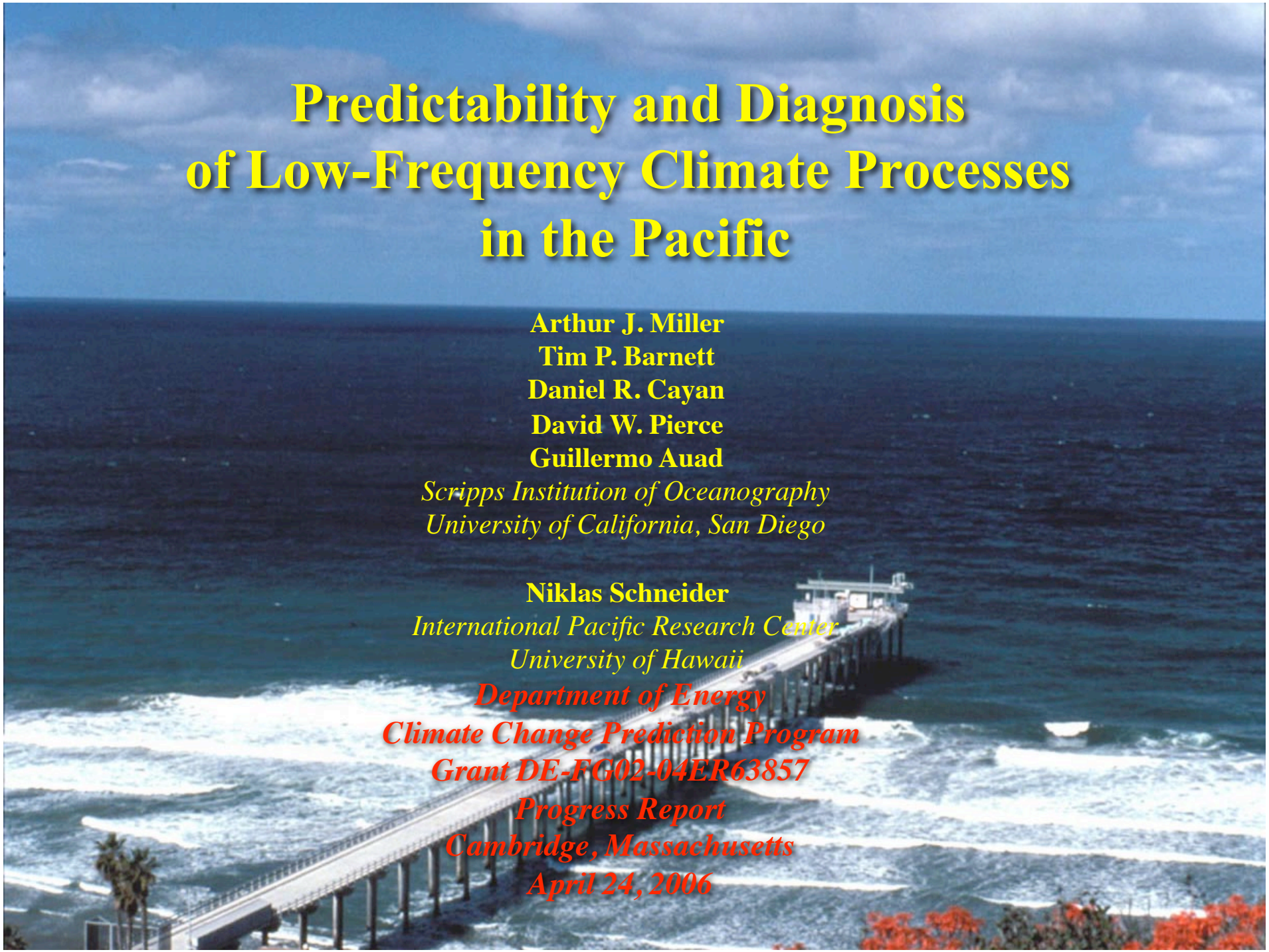

Predictability and Diagnosis of Low-Frequency Climate Processes in the Pacific

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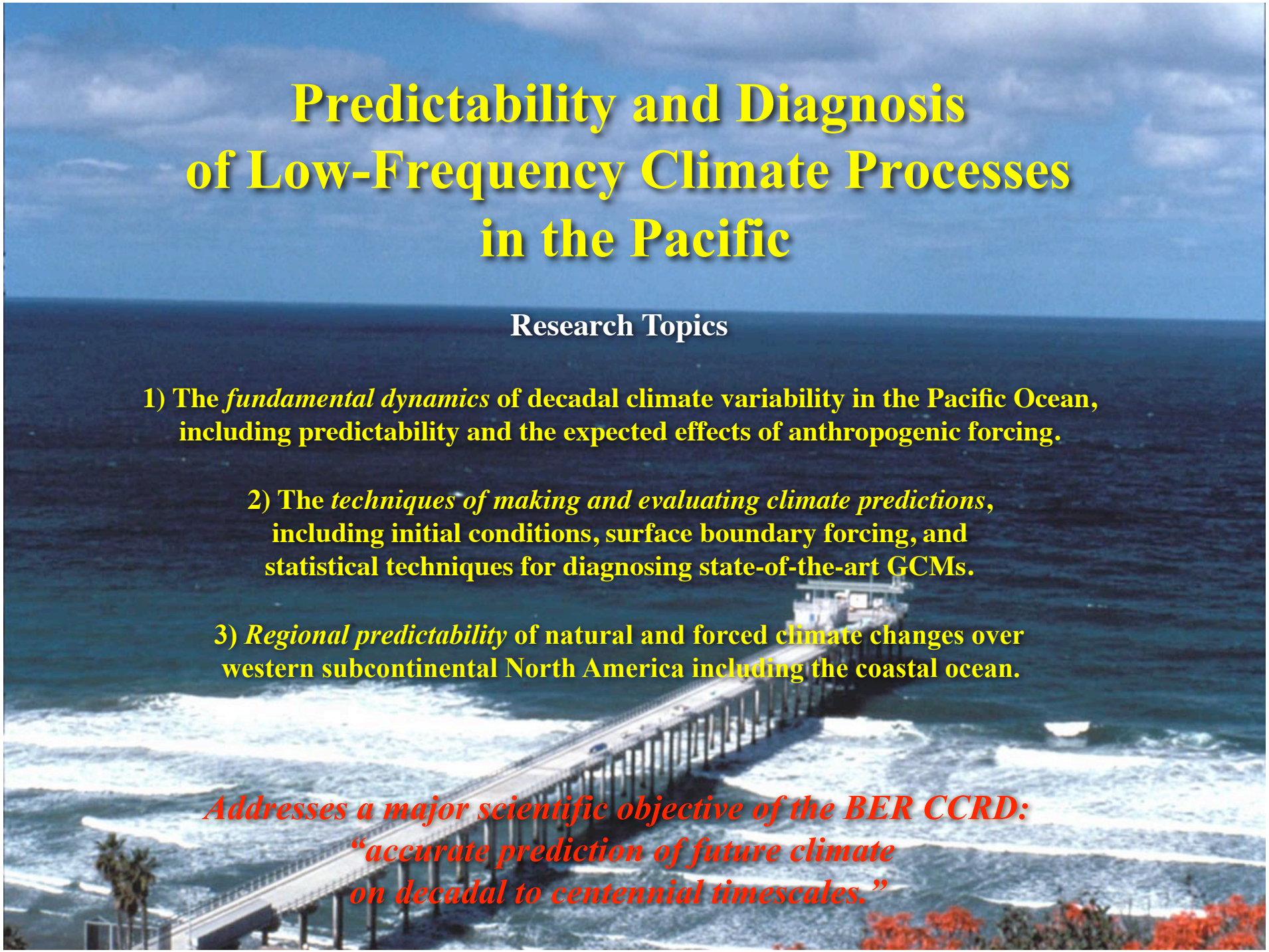
Progress Report
Cambridge, Massachusetts
April 24, 2006



Predictability and Diagnosis of Low-Frequency Climate Processes in the Pacific

Research Topics

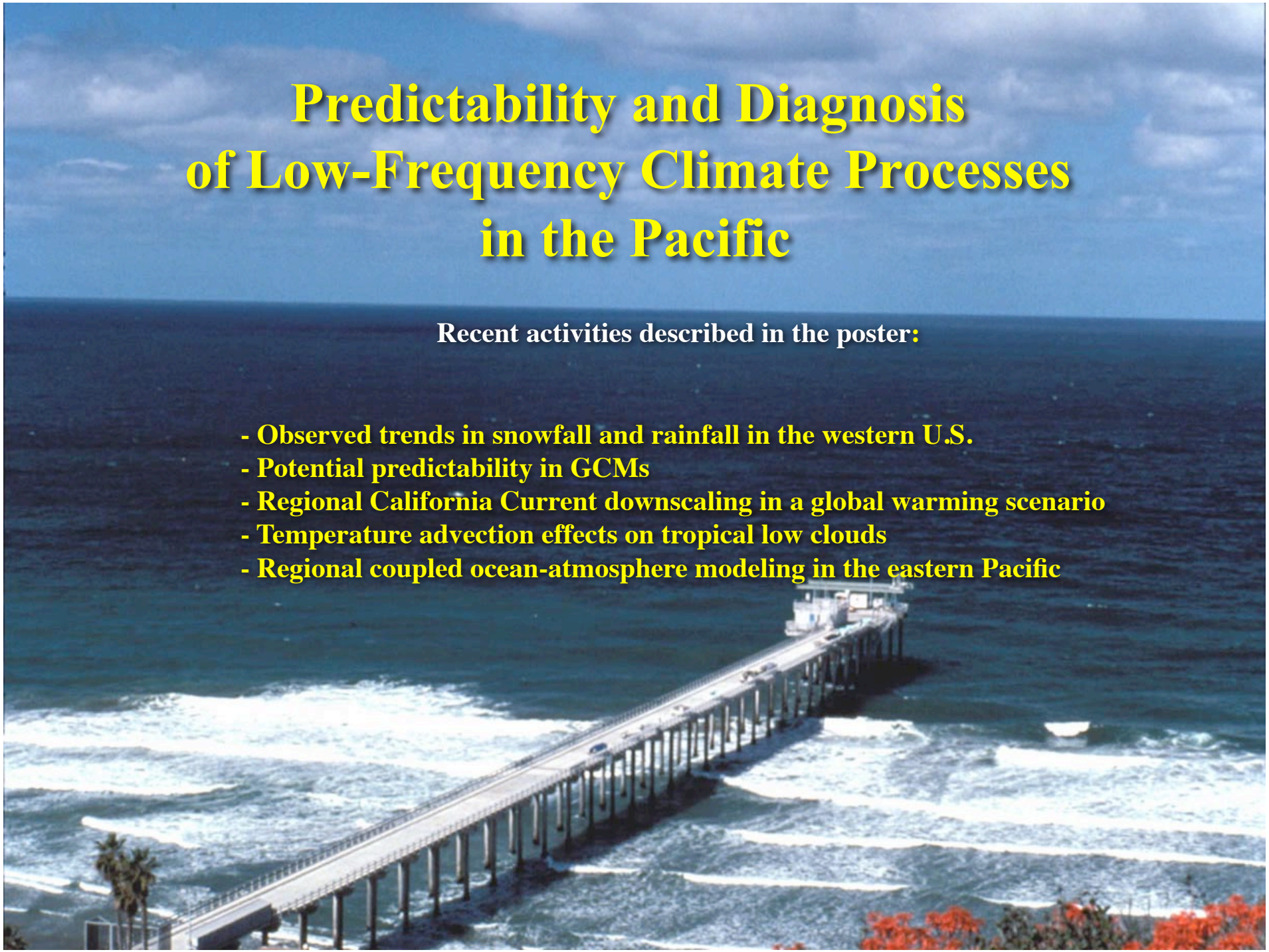
1) The *fundamental dynamics* of decadal climate variability in the Pacific Ocean, including predictability and the expected effects of anthropogenic forcing.

2) The *techniques of making and evaluating climate predictions*, including initial conditions, surface boundary forcing, and statistical techniques for diagnosing state-of-the-art GCMs.

3) *Regional predictability* of natural and forced climate changes over western subcontinental North America including the coastal ocean.

Addresses a major scientific objective of the BER CCRD: "accurate prediction of future climate on decadal to centennial timescales."

Predictability and Diagnosis of Low-Frequency Climate Processes in the Pacific



Recent activities described in the poster:

- Observed trends in snowfall and rainfall in the western U.S.
- Potential predictability in GCMs
- Regional California Current downscaling in a global warming scenario
- Temperature advection effects on tropical low clouds
- Regional coupled ocean-atmosphere modeling in the eastern Pacific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Thanks!